



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/EP91/01811 <b>(22) International Filing Date:</b> 23 September 1991 (23.09.91) <b>(30) Priority data:</b> PCT/EP90/01731 12 October 1990 (12.10.90) EP <i>(34) Countries for which the regional or international application was filed:</i> AT et al. <b>(71) Applicant (for all designated States except US):</b> MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V. [DE/DE]; Bunsenstraße 10, D-3400 Göttingen (DE). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> ECKSTEIN, Fritz [DE/DE]; Holundersteg 6, D-3400 Göttingen (DE). PIEKEN, Wolfgang, A. [DE/DE]; Auf der Wessel 22, D-3400 Göttingen (DE). BENSELER, Fritz [DE/DE]; Heinrich-Warnecke-Straße 4, D-3400 Göttingen (DE). OLSEN, David, B. [US/US]; Merck, Sharp & Dohme, Research Laboratory, WP 42-300, Westpoint, PA 19486 (US). WILLIAMS, David, M. [GB/DE]; Wiesenstraße 15, D-3400 Göttingen (DE). HEIDENREICH, Olaf [DE/DE]; Karolinenweg 15, D-3400 Göttingen (DE).		<b>(74) Agents:</b> WEICKMANN, H. et al.; Postfach 86 08 20, Möhlstraße 22, D-8000 München 80 (DE). <b>(81) Designated States:</b> AT, AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CA, CF (OAPI patent), CG (OAPI patent), CH, CH (European patent), CI (OAPI patent), CM (OAPI patent), CS, DE, DE (European patent), DK, DK (European patent), ES, ES (European patent), FI, FR (European patent), GA (OAPI patent), GB, GB (European patent), GN (OAPI patent), GR (European patent), HU, IT (European patent), JP, KP, KR, LK, LU, LU (European patent), MC, MG, ML (OAPI patent), MN, MR (OAPI patent), MW, NL, NL (European patent), NO, PL, RO, SD, SE, SE (European patent), SN (OAPI patent), SU*, TD (OAPI patent), TG (OAPI patent), US.  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> MODIFIED RIBOZYMES  <b>(57) Abstract</b>  The present invention refers to an RNA molecule with catalytic activity comprising at least one modified nucleoside, wherein the hydroxy group at the 2'-position of the ribose sugar is replaced by a modifier group, selected from halo, sulfhydryl, azido, amino, monosubstituted amino and disubstituted amino groups, a process for the preparation of modified RNA molecules and the use of modified RNA molecules as therapeutic agents and biocatalysts.  <div data-bbox="1153 1638 1469 1848" style="text-align: right; border: 1px solid black; padding: 5px; margin-top: 20px;"><b>Weickmann</b> <b>E 14. JUL 1992</b> <b>Frist:</b> <b>Patentanwälte</b></div>		